

## HEV Fleet Testing

## Advanced Vehicle Testing Activities



### 2001 Honda Insight

VIN #  
JHMZE14701T002688



### A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

## Fleet Performance

### Description:

This vehicle was operated throughout the State of Arizona by Bank One of Arizona's courier pool. It was operated 24 hours a day, six days a week, transferring documents between branches and a central processing center located in Phoenix on city streets and urban freeways as well in intrastate courier routes, with typical high-speed round trips of 100 to 300 miles.

### Major Operations & Maintenance Events:

Replaced CVT transmission and fuel injectors @ 77,054 miles Cost: \$3,500 (est. price)  
Replaced front wheel bearings @ 86,290 miles Cost: \$420 (est. price)  
Need new transmission, throttle position Sensor, front lower control arms, brake @ 145,902 miles Est. Cost: \$4,500

### Operating Cost:

Purchase Cost: \$21,170 (10/01)\*  
Kelly Used Vehicle Price: Unknown  
Sale Price: Testing Complete  
Maintenance Cost: \$0.08/mile  
Operating Cost: \$0.07/mile  
Total Ownership Cost: \$0.29/mile

### Operating Performance:

Total miles driven: 145,902  
Cumulative MPG: 44.05

## Vehicle Specifications

**Engine:** 3-cylinder, 48 kW @ 5700 rpm

**Electric Motor:** 10 kW

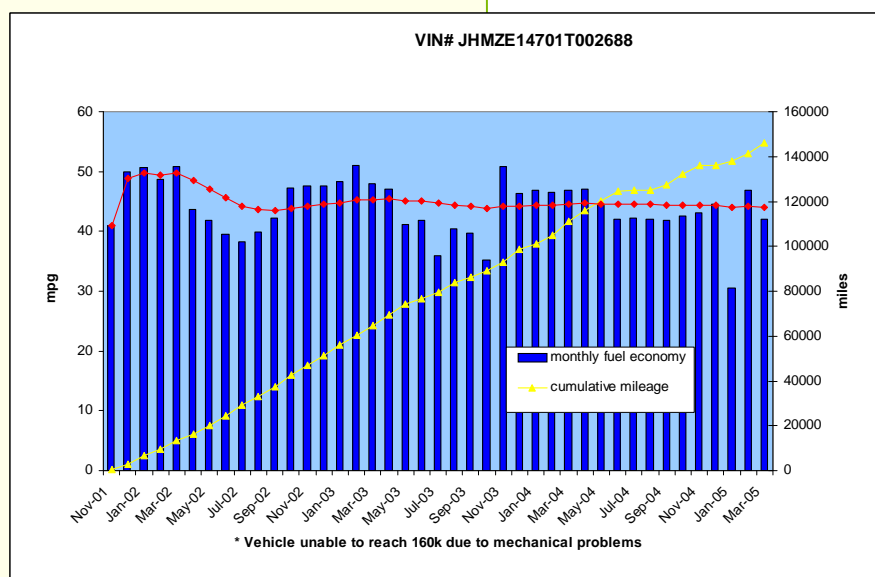
**Battery:** Nickel Metal Hydride

**Seatbelt Positions:** Two

**Payload:** 411 lbs

**Features:** Regenerative Braking  
CVT Transmission

See HEVAmerica Baseline Performance Fact Sheet for more information.



For more information contact:  
EERE Information Center  
1-877-EERE-INF (1-877-337-3463)  
[www.eere.energy.gov](http://www.eere.energy.gov)



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**Energy Efficiency and Renewable Energy**

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# *FREEDOMCAR & VEHICLE TECHNOLOGIES PROGRAM*

## **HEV Fleet Testing**

### **Advanced Vehicle Testing Activities**

### **Maintenance Sheet for 2001 – Honda Insight Hybrid**



**VIN #JHMZE14701T002688**

<b>Date</b>	<b>Mileage</b>	<b>Description</b>	<b>Cost</b>
2/7/2002	7,473	Changed oil, rotated tires	\$27.00
4/12/2002	14,946	Changed oil, rotated tires	\$27.00
4/17/2002	14,952	15K service	\$154.76
6/4/2002	20,165	Changed oil, rotated tires	\$27.00
7/25/2002	28,213	Changed oil and filter, rotated tires	\$34.08
8/26/2002	32,172	30K service - Major tune up, oil change, transmission service, coolant serv, fuel filter, air filter, battery service, rotation and balance, brake	\$420.98
9/20/2002	36,096	Changed oil, rotated tires	\$31.59
10/16/2002	40,170	Changed oil, rotated tires	\$30.87
12/9/2002	48,082	Changed oil, rotated tires	\$30.99
1/30/2003	55,856	55K service	\$324.33
3/10/2003	61,577	Oil change, driver noticed problem with transmission - transmission flush, front brake pads replaced	\$399.34
4/28/2003	69,098	Replaced battery	\$65.92
6/3/2003	74,410	Changed oil, rotated tires	\$30.86
6/26/2003	76,977	15K service - Flushed transmission, driver was having problem with the transmission	\$314.01
7/10/2003	77,054	75K service - Flushed transmission, driver was having problem with transmission. The flush did not fix the problem, therefore the transmission,	Under Warranty
7/24/2003	78,700	Changed headlight	\$15.80
8/11/2003	80,871	Changed oil, rotated tires	\$31.63



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9/3/2003	84,003	Changed oil, rotated tires, changed two tires under warranty	\$61.42
9/29/2003	86,290	Replaced front wheel bearings	\$50.00
10/14/2003	88,438	Changed oil, replaced hatch lifts	\$172.02
11/18/2003	92,050	90K service	\$182.33
12/15/2003	96,092	Changed oil, rotated tires	\$31.17
2/17/2004	103,963	15K service	\$250.29
4/5/2004	111,714	Changed oil, rotated tires	\$30.63
4/27/2004	115,473	Changed oil, rotated tires	\$30.63
5/24/2004	119,800	Mount	\$1087.74
6/4/2004	120,817	Recall headlight wire harness replacement	NC
6/23/2004	123,564	Changed oil, replaced two tires	\$174.94
8/11/2004	124,904	Repaired collision damage	\$1,277.17
9/3/2004	124,919	Replaced engine mounts and fuel sending units	\$1,296.76
9/21/2004	126,040	Replaced right constant velocity joint	\$346.20
10/1/2004	127,448	Changed oil	\$21.63
10/25/2004	131,072	Changed oil, rotated tires, replaced window washer reservoir	\$190.29
12/14/2004	135,963	Replaced dash cluster, reflashed odometer	\$1,103.62
2/9/2005	139,093	15K service - Replaced A/C belt tensioner, wheel alignment	\$481.76
4/4/2005	145,902	Maintenance required light came on. Dealer diagnostic: Transmission failed, throttle position sensor failed, both control arms need to be replaced	\$95.00
6/28/2006	148,636	Replaced battery module, battery condition monitor and motor control module	NC

